Project Name: NAR

Project Code: NAR **B800** Observation ID: 1 Site ID:

Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: Date Desc.: G.D. Hubble Locality: Catchment 4. Elevation: 21/09/72 236 metres Sheet No.: 9046 1:100000 Map Ref.: Rainfall: 716

Northing/Long.: 150.90944444445 Runoff: Slow -25.69444444445 Moderately well drained Easting/Lat.: Drainage:

Geology

ExposureType: Undisturbed soil core Conf. Sub. is Parent. Mat.: No Data

Geol. Ref.: **Substrate Material:** Undisturbed soil core, 1 m PRt

deep,Unconsolidated material

Land Form

Rel/Slope Class: Undulating rises 9-30m 3-10% Pattern Type: Rises Morph. Type: No Data Relief: 30 metres Elem. Type: Valley flat Slope Category: No Data Aspect: No Data Slope: 0 %

Surface Soil Condition (dry): Hardsetting

Erosion:

B2

0.6 - 0.75 m

Soil Classification

Australian Soil Classification: Mapping Unit: N/A Hypocalcic Mottled-Subnatric Grey Sodosol **Principal Profile Form:** Dy3.43 **ASC Confidence: Great Soil Group:** Solodic soil

All necessary analytical data are available.

Site Disturbance: No effective disturbance other than grazing by hoofed animals

Vegetation: Low Strata - Tussock grass, , . *Species includes - Heteropogon contortus, Aristida species

Tall Strata - Tree, 6.01-12m, Mid-dense. *Species includes - Eucalyptus crebra

Surface Coarse Fragments:

<u>Profil</u>	<u>le Morpholo</u>	gy
Α1	0 - 0.1 m	

e worphology	
0 - 0.1 m	Very dark grey (10YR3/1-Moist); ; Loam; Weak grade of structure, 5-10 mm, Angular blocky; Moist; Weak consistence; 2-10%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Common, very fine (0-1mm) roots; Abrupt change to -
0.1 - 0.16 m	Light brownish grey (10YR6/2-Moist); White (10YR8/2-Dry); ; Sandy loam; Massive grade of structure; Dry; Firm consistence; 2-10%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Common, very fine (0-1mm) roots; Sharp change to -
0.16 - 0.2 m	Dark greyish brown (10YR4/2-Moist); ; Heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Moderately moist; Very firm consistence; 10-20%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Common, very fine (0-1mm) roots;
0.2 - 0.3 m	Dark greyish brown (10YR4/2-Moist); , 10YR44, 10-20% , 0-5mm, Distinct; , 10-20% , 0-5mm, Distinct; Heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Moderately moist; Very firm consistence; 10-20%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Common, very fine (0-1mm) roots; Diffuse change to -
0.3 - 0.45 m	Dark greyish brown (2.5Y4/2-Moist); , 10YR31, 10-20% , 15-30mm, Distinct; , 10YR54, 10-20% , 15-30mm, Distinct; Heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Moderately moist; Firm consistence; 20-50%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; Common, very fine (0-1mm) roots; Diffuse change to -
0.45 - 0.6 m	Dark greyish brown (2.5Y4/2-Moist); , 10YR31, 10-20% , 15-30mm, Distinct; , 10YR56, 10-20% , 15-30mm, Distinct; Heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Moderately moist; Firm consistence; 20-50%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; Few, very fine (0-1mm) roots; Diffuse change to -
	0 - 0.1 m 0.1 - 0.16 m 0.16 - 0.2 m 0.2 - 0.3 m

 $Dark\ greyish\ brown\ (2.5Y4/2-Moist);\ ,\ 10YR31,\ 10-20\%\ ,\ 15-30mm,\ Distinct;\ ,\ 10YR56,\ 10-20\%\ ,$ 15-30mm, Distinct; Medium clay; Moderate grade of structure, 20-50 mm, Angular blocky; Moderately moist; Firm consistence; 20-50%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; Gradual change to -

Projec	ct Code: NA	AR AR Site ID: B800 Observation ID: 1 SIRO Division of Soils (QLD)
В3	0.75 - 0.9 m	Dark greyish brown (2.5Y4/2-Moist); ; Sandy medium clay; Moderate grade of structure, 20-50 mm, Angular blocky; Moderately moist; Firm consistence; 20-50%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Very few (0 - 2 %), Calcareous, Coarse (6 - 20 mm), Nodules; Gradual change to -
В3	0.9 - 1.05 m	Dark greyish brown (10YR4/2-Moist); , 10YR44, 10-20% , 0-5mm, Distinct; , 10-20% , 0-5mm, Distinct; Coarse sandy clay loam; Weak grade of structure, 20-50 mm, Angular blocky; Moderately moist; Firm consistence; 10-20%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Soft segregations; Very few (0 - 2 %), Calcareous, Coarse (6 - 20 mm), Nodules; Few, very fine (0-1mm) roots; Gradual change to -
С	1.05 - 1.2 m	Dark greyish brown (10YR4/2-Moist); , 10YR44, 10-20% , 0-5mm, Distinct; , 10-20% , 0-5mm, Distinct; Coarse sandy loam (Heavy); Weak grade of structure, 20-50 mm, Angular blocky; Moderately moist; Firm consistence; 10-20%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Soft segregations; Very few (0 - 2 %), Calcareous, , Nodules; Gradual change to -
С	1.2 - 1.5 m	Brown (7.5YR5/4-Moist); , 10YR42, 10-20% , 0-5mm, Distinct; , 10-20% , 0-5mm, Distinct; Coarse sandy loam (Heavy); Massive grade of structure; Moist; Weak consistence; 20-50%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; Gradual change to -
С	1.5 - 1.8 m	Yellowish brown (10YR5/4-Moist); Coarse sandy loam (Heavy); Massive grade of structure; Moist; Weak consistence; 10-20%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments;

Morphological Notes

Observation Notes

PARENT MATERIAL LOCAL ALLUVIUM FROM ADAMELLITE. 10-30CM DEPTH TENDING MACRO COLUMNAR STRUCTURE. GRAVELS THROUGHOUT QUARTWITH SOME FELDSPARS TO 10MM THROUGH B HORIZON. SOLUM OVERLIES BURIED SIIMILAR SOLUM 180-260 CM WEATHERED IN SITU BELOW.

Site Notes

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Project Name: NAR
Project Code: NAR
Agency Name: CSIR

Project Code: NAR Site ID: B800 Observation ID: 1

Agency Name: CSIRO Division of Soils (QLD)

Depth	рН	1:5 EC		hangeable	Cations K	Na		angeable	e CEC		ECEC	E	SP
m		dS/m	Ja I	Mg	N.	Na Cmol	(+)/kg	cidity				o,	6
0 - 0.1	5.8H	0.31A	7.6K	3	0.81	0.11		4.9D					
0.1 - 0.16	6.6H	0.058A											
0.16 - 0.2	7H	0.086A											
0.2 - 0.3	7H	0.086A	9.4K	10.4	0.98	1.4		2.5D					
0.3 - 0.45	7.4H	0.118A											
0.45 - 0.6	7.7H	0.156A	6.4K	9.2	0.62	1.7		0.2D					
0.6 - 0.75	8H	0.265A											
0.75 - 0.9	8.9H	0.38A	6.5K	10.4	0.48	2.1		0D					
0.9 - 1.05	8.8H	0.36A											
1.05 - 1.2	8.9H	0.305A											
1.2 - 1.5	8.8H	0.32A											
1.5 - 1.8	9.1H	0.345A											
Depth	CaCO3	Organic	Avail.	Total	Total	To	tal	Bulk	Pa	rticle	Size	Analysis	
Борин	ouooo	C	P	P	N			Density		CS	FS	Silt	
m	%	%	mg/kg	%	%	%	6	Mg/m3			%		
0 - 0.1		2 24 4	100B	430F	0.17	'4D 2	.24B	1.20	4	31C	34	22	10
0.1 - 0.16		2.31A 0.39A	100B 24B	4306	0.17	_	.240	1.60	21	46C	31	22 16	10 8
0.16 - 0.16		0.39A 0.47A	24B 13B		0.03			1.60	21	29C	24	_	36
0.16 - 0.2		0.47A 0.96A	13B 17B	300F	0.03	-	.84B	1.60	14	29C	23	10	39
0.2 - 0.3		0.96A 0.56A	176	300F	0.07		.04D	1.90	24	290	23	10	39
0.45 - 0.6		0.36A 0.25A	118B		0.04			2.00	27	37C	27	9	28
0.6 - 0.75		0.23A	1100		0.02	. 4 D		2.00	32	370	21	9	20
0.75 - 0.9	0.630		162B	370F		3	.38B	2.00	23	49C	18	5	28
0.9 - 1.05	0.03C		1020	3701		3	.500	1.90	16	53C	19	-	23
1.05 - 1.2	0.080							2.00	17	57C	20	_	17
1.2 - 1.5	0.000							1.90	26	0.0		•	
1.5 - 1.8	0.280	;	304B	470F		3	.58B	1.90	14	46C	28	6	19
Depth COLE Gravimetric/Volumetric Water Contents K sat K unsat													
Deptii	COLE	Sat.		0.1 Bar	0.5 Bar	1 Baı			15 Bar	11 30		ix unsat	
m		Jai.	0.05 Bai		j - m3/m3		, ,	⊿ ai	15 Dai	mm/	'h	mm/h	

0 - 0.1 0.1 - 0.16 0.16 - 0.2 0.2 - 0.3 0.3 - 0.45 0.45 - 0.6 0.6 - 0.75 0.75 - 0.9 0.9 - 1.05 1.05 - 1.2 1.2 - 1.5 Project Name: NAR

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Laboratory Analyses Completed for this profile

10A_NR Total element - S(%) - Not recorded

15_NR_CA Exch. basic cations (Ca++) - meq per 100g of soil - Not recorded

15_NR_H Hydrogen Cation - meq per 100g of soil - Not recorded

15_NR_K
15_NR_MG
15_NR_NA
Exch. basic cations (K++) - meq per 100g of soil - Not recorded
Exch. basic cations (Mg++) - meq per 100g of soil - Not recorded
Exch. basic cations (Na++) - meq per 100g of soil - Not recorded

17A_NR Total element - K(%) - Not recorded

19B_NR Calcium Carbonate (CaCO3) - Not recorded

2A1 Air-dry moisture content 3A1 EC of 1:5 soil/water extract 4_NR pH of soil - Not recorded

5_NR Water soluble Chloride - Cl(%) - Not recordede

6A1 Organic carbon - Walkley and Black 7_NR Total nitrogen (%) - Not recorded 9A_NR Total element - P(%) - Not recorded

9A_NR Total element - P(%) - Not recorded
9G_BSES Available P (mg/kg) - Acid P - 0.005M H2SO4 (BSES)

P10_GRAV Gravel (%)

P10_NR_C
P10_NR_CS
Coarse sand (%) - Not recorded
P10_NR_FS
P10_NR_Z
P3A_NR
Clay (%) - Not recorded
Coarse sand (%) - Not recorded
Fine sand (%) - Not recorded
Silt (%) - Not recorded
Bulk density - Not recorded